

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
20 January 2005 (20.01.2005)

PCT

(10) International Publication Number  
**WO 2005/005552 A1**

(51) International Patent Classification<sup>7</sup>: **C09B 67/22**

(21) International Application Number:  
PCT/EP2004/007021

(22) International Filing Date: 29 June 2004 (29.06.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
2003-192345 4 July 2003 (04.07.2003) JP

(71) Applicant (for all designated States except US): **DYSTAR  
TEXTILFARBEN GMBH & CO. DEUTSCHLAND**  
KG [DE/DE]; Industriepark Höchst, 65926 Frankfurt  
(DE).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **HIHARA, Toshio**  
[JP/JP]; 2-11-40, Wakaba, Yahata Nishi-ku, Kitayushu-shi,  
Fukuoka 806-0066 (JP). **SETO, Wataru** [JP/JP];  
2-7-4-302, Sumishoshi, Ikeda-shi, Osaka 563-0033  
(JP). **FUJISAKI, Koichi** [JP/JP]; 19-302, Yokomakuran-  
ishi, Higashiosaka-shi, Osaka 578-0956 (JP). **HOSODA,  
Daisuke** [JP/JP]; 4-1-9-403, Ojimachi-Abenoku, Os-  
aka-shi, Osaka 545-0023 (JP). **INOUE, Hiroshi** [JP/JP];  
399-3, Oaza Takuma, Omuta-shi, Fukuoka 837-0916 (JP).

(81) Designated States (unless otherwise indicated, for every  
kind of national protection available): AE, AG, AL, AM,  
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,  
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,  
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,  
ZW.

(84) Designated States (unless otherwise indicated, for every  
kind of regional protection available): ARIPO (BW, GH,  
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,  
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,  
FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,  
SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,  
GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guid-  
ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.

(54) Title: DISPERSE DYE MIXTURES WHICH HAVE A HIGH DEGREE OF LIGHT FASTNESS

(57) Abstract: The present invention provides a blue dye mixture which contains the pigments represented by formulae [1], [2], [3] and [4] as defined in claim 1, dye mixtures in which there are compounded therewith a yellow dye mixture which contains pigment which can be represented by formulae [5] to [7] as defined in claim 2 and/or a red dye mixture which contains pigment which can be represented by formulae [8] to [11] as defined in claim 2, a method of dyeing polyester-based fibers and dyed polyester-based fiber materials.

WO 2005/005552 A1